

Manufacturing Engineering

Objectives:

- Create product structure charts, BOM's and routing sheets
- Determine appropriate manufacturing process
- Evaluate product cost

Product Structure Chart

- ❑ “What goes into what”
- ❑ The product is comprised of sub-assemblies, sub-subassemblies, components and raw materials
- ❑ Lines represent processes or operations required to go to the next level
- ❑ Figure 3.1 on p. 46



Bill of Materials

- ❑ Number and name of each part
- ❑ Source of each part
- ❑ Title – number and name of completed product
- ❑ Separate BOM for subassemblies
- ❑ Example, Figure 3.2 and 3.28



Route Sheet

- ❑ Set of instructions to the plant showing how to manufacture the product
- ❑ Machine
- ❑ Time
- ❑ Operation description
- ❑ Fig. 3.9 and 3.30 (example)